

U.S. Pat. App. Ser. No. 10/621,897  
Docket No. 056754/0119588  
Amendment and response to 4/6/2007 Ex Parte Quayle Action

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Cancelled)
2. (Original) A method for replicating a monolayer comprising the steps of:  
providing a plurality of monomers;  
providing a template for a monolayer to be replicated;  
binding the plurality of monomers to the template, forming a monolayer replicant;  
polymerizing the monolayer replicant; and  
disassociating the polymerized monolayer replicant from the template.
3. (Original) The method of claim 2, wherein the template is a patterned substrate.
4. (Original) The method of claim 2, wherein the template is a patterned monolayer in solution.
5. (Previously amended) The method of claim 2, further including the step of creating at least one additional polymerized monolayer replicant by utilizing the polymerized monolayer replicant as the template for the additional polymerized monolayer replicant.
6. (Original) The method of claim 2, wherein said monomers are nanoparticle ensembles.

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7. (Previously amended) The method of claim 6, wherein said monomers are selected from the group consisting of Hentriaconta-11,13,20,22-tetraynoic acid, Hentriaconta-11,13,20,22-tetraynoic acid amide, Triaconta-10,12,19,21-tetraynoic acid amide, and Triaconta-10,12,19,21-tetraynoic acid.

8. (Original) The method of claim 2, further including the step of selective mineralization of the replicant.

9. (Original) The method of claim 2, further including the step of electroless plating of the replicant.

10. (Original) The method of claim 2, further including the steps of nanoparticle adhesion and sintering of the replicant.

11. (Original) The method of claim 2, further including the step of growing a semiconductor upon the replicant.

12. – 22. (Cancelled)